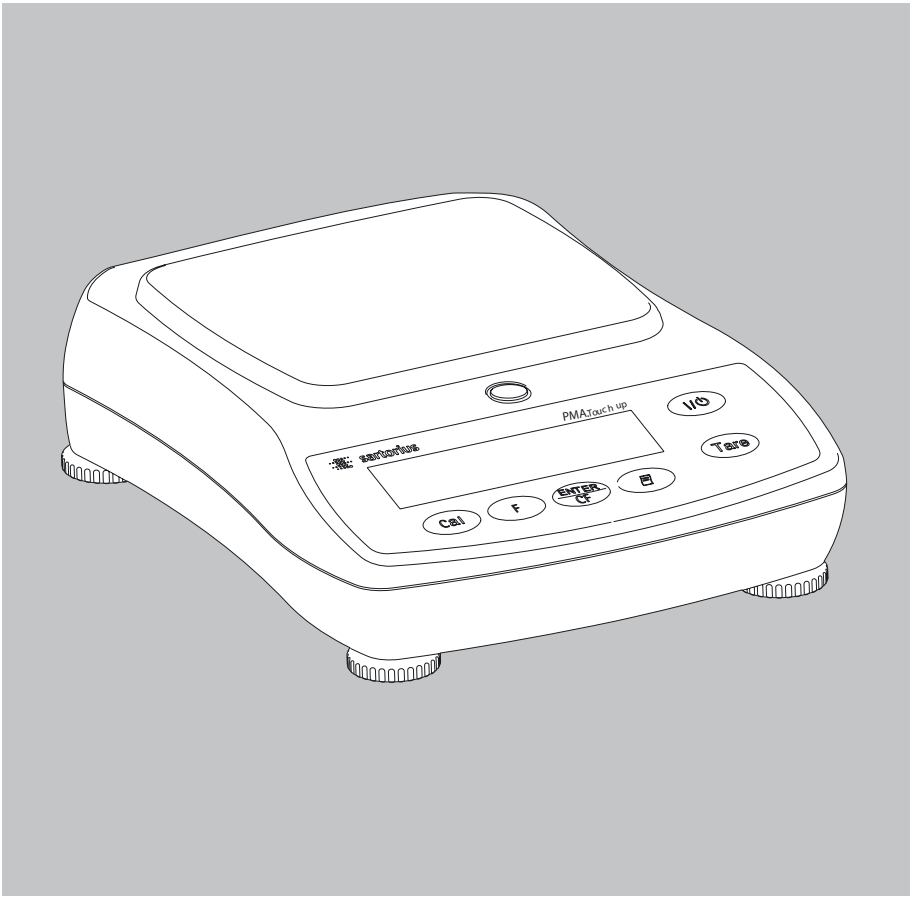
Installation Instructions

Sartorius
Model PMA600H (PMA.Touch Up)

Electronic Paint-mixing Scales



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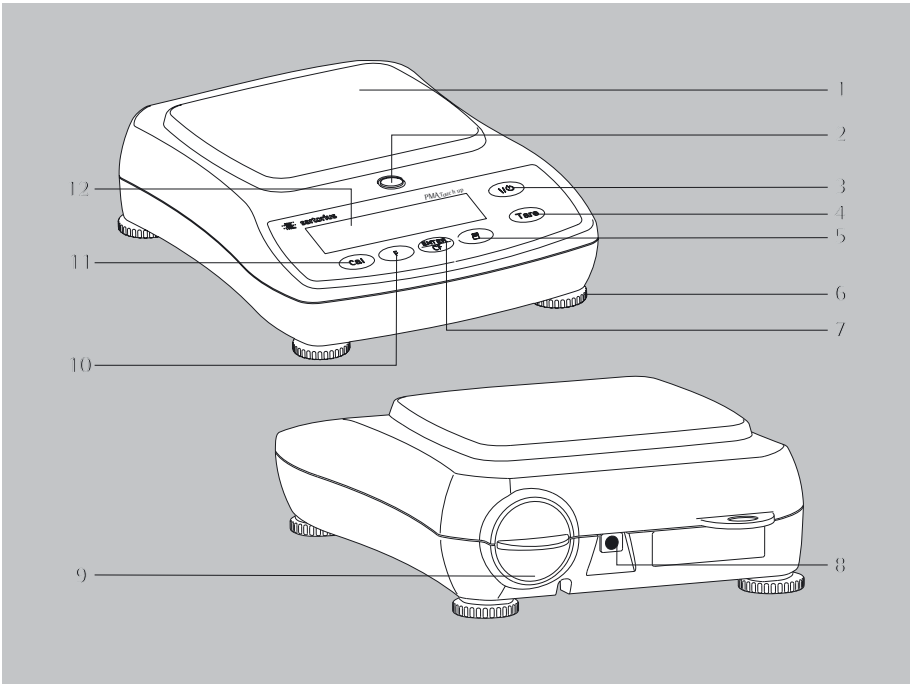
General View of the Equipment PMA600H



1 Weighing pan
2 Level indicator
3 (I/Ö) key (On/Off/Standby)
4 (TARE) key: Zero/Tare
5 (⊟) key (not assigned)
6 Leveling foot
7 (Enter CF) key to confirm parameter settings:
  – Configuration
  – Calibration
  (Enter CF) key (Clear Function)
8 DC jack
9 Weight compartment
10 (F) key (change menu item)
11 (CAL) key (start calibration)
12 Display

The following symbols are used in these instructions:

● Indicates required steps
○ Indicates steps required only under certain conditions
> Describes what happens after you have performed a particular step
– Indicates an item in a list
⚠ Indicates a hazard

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Intended Use

The PMA600H (PMA.Touch Up) is a specially designed portable scale for use in paint-mixing operations. The scale can be battery-operated or connected to the AC adapter.

If required, Sartorius can supply a data interface for connecting the scale to a PC.

Note:
Read the PMA600H installation and operating instructions carefully before connecting the scale and putting it into operation.

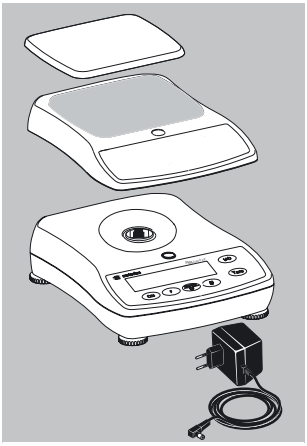
Warnings and Safety Precautions

This scale meets the guidelines and standards governing electronic equipment, electromagnetic compatibility and the stipulated safety standards. Improper use or handling can result in property damage and/or personal injury. To prevent damage to the equipment, read these operating instructions thoroughly before using your scale. Keep these instructions in a safe place.

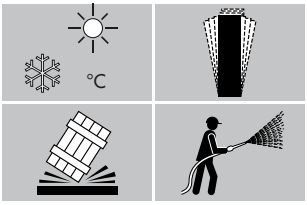
- Do not expose the scale to extreme temperatures, aggressive chemical vapors, moisture, shocks or vibrations.
- Exposure to excessive electromagnetic interference can cause the readout value to change. Do not use transmitting devices (e.g., mobile telephones) in the immediate vicinity (i.e., within approximately 1 meter) of the scale. Once the disturbance has ceased, the instrument can be used again in accordance with its intended purpose.
- Do not operate the scale in hazardous areas.
- To ensure safety, disconnect the equipment from power before connecting or disconnecting the cables or electronic peripheral devices.
- If you use cables purchased from another manufacturer, check the pin assignments in the cable against those specified by Sartorius before connecting the cable to Sartorius equipment, and disconnect any wires that are assigned differently. The operator shall be solely responsible for any damage or injuries that occur when using cables not supplied by Sartorius.
- When connecting the scale to the power supply, the laws valid in your country must be observed. If you have any questions, please contact your supplier or Sartorius Customer Service for information on the legal regulations applicable in your country. The scale must be installed by a certified technician to avoid forfeiture of all claims under the manufacturer's warranty.
- If you see any indication that the scale cannot be operated safely (for example, if the AC adapter shows visible damage or is obviously defective), disconnect the equipment from power and lock it in a secure place to ensure that it cannot be used for the time being. Comply with the accident prevention regulations and inform operators accordingly.
- Always make sure the equipment is disconnected from AC power before performing any installation, cleaning, maintenance or repair work on the scale. To avoid forfeiture of all claims under the manufacturer's warranty, any repair and maintenance work must be performed by authorized Sartorius service technicians.
- Use only commercially available batteries: (8 size AA batteries; not included). Batteries are not automatically recharged during use.
  Use a suitable external battery charger to recharge the battery pack.
- The casing on all connecting cables, as well as the casing on wires inside the equipment housing, is made of PVC. Chemicals that could damage the PVC may not be used in the vicinity of the cables.
- Never close the lid of a paint can while it is still on the weighing pan. Otherwise, you will damage the weighing system.
- Avoid applying strong force to the weighing pan. Otherwise, you will damage the weighing system.

Getting Started

- Remove the scale from its packaging.
- After unpacking the scale, check it immediately for any visible damage as a result of rough handling during shipment.

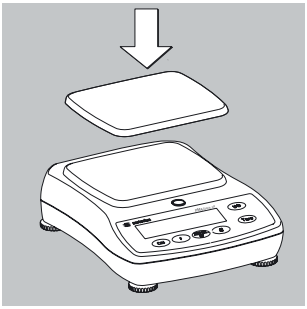


Equipment Supplied
- Weighing pan
- In-use dust cover
- Scale
- Calibration weights
- AC adapter

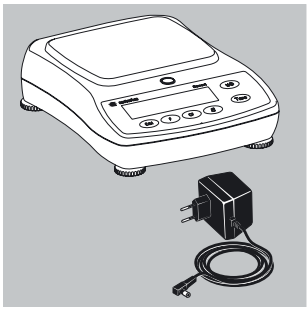


Setting Up the Scale
Choose a suitable place to set up the scale. Avoid exposure to drafts, heat, moisture and vibration. Make sure to read the instructions carefully before connecting the scale to AC power.

⚠ Observe the safety precautions and warnings in this manual.



- Place the weighing pan on the scale.

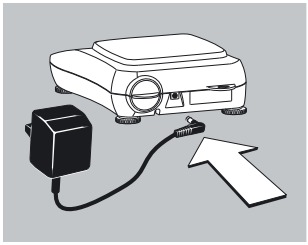


Connection to AC Power

The equipment is powered through the AC adapter supplied.

⚠ Observe the safety precautions and warnings in this manual.

Make sure the voltage rating of the AC adapter matches that of your local line voltage (mains supply). If it does not match your local voltage rating or if the plug design differs from your local standard, contact your Sartorius office or dealer. Use only original Sartorius AC adapters. The use of AC adapters from other manufacturers, even if these units have a registered approval rating from a national testing laboratory, requires the approval of a certified technician.



- Insert the right-angle plug into the DC jack (8) on the scale.
- Plug the AC adapter into an electrical AC power outlet.

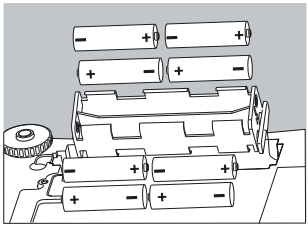
Inserting Batteries

Note:

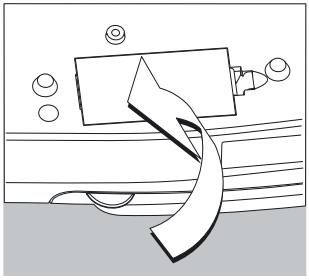
Batteries are not included with the equipment supplied.

⚠ Use only commercially available batteries.

(8 size AA). Recharge batteries using only an external battery charger.

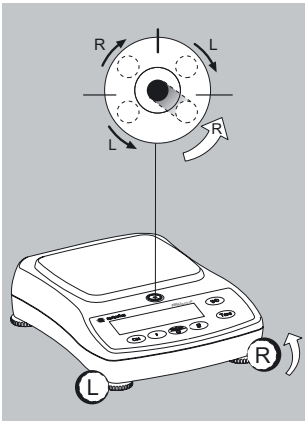


- Turn the scale on its side and open the battery compartment (remove the battery compartment cover).
- Insert the batteries. Make sure the polarity is correct.



- Close the battery compartment (replace the lid, making sure it locks into place).

⚠ Used batteries constitute hazardous waste (i.e., are not household waste) and must be disposed of in accordance with the waste management laws applicable in your country.

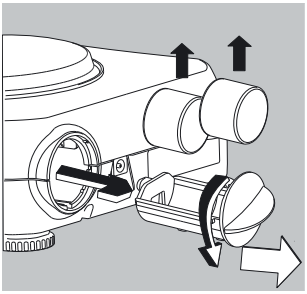


Leveling the PMA.Touch Up

- Level the PMA.Touch Up each time you set it up in a new location.
  Example: The air bubble must move from the lower-right to the center position.

- As shown in the illustration, turn the leveling feet until the air bubble is centered within the circle of the level indicator.

> In general, several leveling steps will be necessary.



Calibration Weights

- Turn the tab of the weight compartment and pull out the compartment.
- Remove the weights

> Calibrating/adjusting the scale
(please refer to “Calibration/Adjustment”)

Operation

Basic Weighing Functions

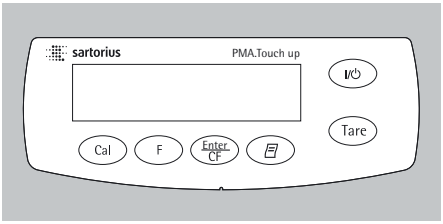
Features

– Zeroing/taring the scale:
You can zero/tare the scale within the entire weighing range.

Preparation

● Switch on the scale: press the (I/⏻) key
● If necessary, zero/tare the scale: press the (TARE) key
○ Change the menu settings, if necessary: see the chapter entitled “Menu Settings”
○ Load factory settings, if necessary: see “Parameter 9. – 1” in the chapter entitled “Menu Settings,”
Additional functions:
○ Turning off the scale: press the (I/⏻) key

Function Keys



(I/⏻) key On/Off
(TARE) key Zero/tare; press and hold (2 seconds): Save settings
(CAL) key Start calibration/adjustment.
(F) key In the configuration menu and when calibrating/adjusting, scroll to select parameters
(Enter CF) key Confirm parameter settings:
– Configuration
– Calibration/adjustment
(⎙) key (not assigned)

Example: Determining weight value

Step	Key (or instruction)	Display
1. Turn on the scale A self-test is performed Display shows software version	(I/⏻) key 	
2. Position the can for the paint (in this example, 52 g)		52.00
3. Zero/tare the scale	(TARE) key	50.00
4. Pour in paint component (in this example, 150.2 g)		150.20

Note:
Avoid applying strong force to the weighing pan. Otherwise, you will damage the weighing system. Never close the lid of a paint can while it is still on the weighing pan. Otherwise, you will damage the weighing system.

Calibration/Adjustment

Calibrate/adjust the scale following installation and after moving it to a new location.
Features:
Calibration can only be started when:
- The scale is unloaded
- The scale is tared
- The internal weighing signal is stable

If these prerequisites have not been met, an error message is displayed when you attempt to start calibration.
The required calibration weight is displayed.
Standard calibration weights for selected models: see page 7 for instructions on removal.
You can select other weight values by pressing the (F) key.
You can interrupt calibration by pressing the (I/⏻) key twice.

Example: Determining weight value

Step	Press Key	Display
1. Turn on the scale	(I/⏻) key	
2. Zero/tare the scale	(TARE) key	
3. Start calibration; the defined calibration weight is displayed without a unit (in this example, 200 g)	(CAL) key	
4. If necessary, select a different calibration weight	(F) key	
5. Confirm calibration weight value and start calibration/adjustment Once the zero point has been stored, the calibration weight value flashes on the display.	(Enter CF) key	
6. Place the required calibration weight on the weighing pan The value stops flashing if the calibration weight is within the defined tolerances. When the calibration weight value has been stored, the symbol ⚠ disappears and the stability symbol ⚖ is displayed.		
7. Remove the calibration weight		
8. This concludes the calibration process		

Menu Settings (Setup Menu)

You can configure the scale to adapt it to particular requirements.

Step	Key	Display
1. Turn off the scale	(I/⏻) key	
2. Turn on the scale;	(I/⏻) key	
press	(TARE) key	
briefly while all segments are displayed, or press and hold for more than 2 seconds		

Key Functions in the Setup Menu:

Key	Press briefly	Press and hold
(Enter CF) key	Menu level: scroll to the right (continuous)	Confirm setting
(F) key	Menu item: scroll upwards	–
(TARE) key	Menu level: scroll to the left	Save settings and exit the setup menu

Parameter Settings (Overview) o Factory Settings; √ User-defined Settings

Setup Menu	1 Weighing			
	1.1. Adapt filter	1.1.1		Very stable conditions
		1.1.2	o	Stable conditions
		1.1.3		Unstable conditions
		1.1.4		Very unstable conditions
	1.2. Application filter	1.2.1		Final readout
		1.2.2	o	Filling mode
	1.3. Stability range	1.3.1		1/4 digit
		1.3.2		1/2 digit
		1.3.3		1 digit
		1.3.4	o	2 digits
		1.3.5		4 digits
	1.5. Calibration/linearization Key function (CAL)	1.5.1	o	Calibration
		1.5.2		Linearization (for service only)
		1.5.3		Key is blocked
	1.6. Auto zero	1.6.1		On
		1.6.2	o	Off
	1.7. Weight units	1.7.1		Parts per pound
		1.7.2		Grams
	5. and 6.: Relevant only if an interface port is installed; refer to the description of the interface port			
	8. Additonal functions — 8.1. Block key functions	8.1.1		All blocked except (ON/OFF) and (ZERO) functions
		8.1.2	o	All keys unblocked
	9. Reset menu — 9.1. factory settings	9.1.1		Reset
		9.1.2	o	Do not reset

Troubleshooting Guide

Error messages are displayed for approximately 2 seconds, after which the program automatically returns to the weighing mode.

Problem	Cause	Solution
No segments appear on the weight display	– No AC power available – AC adapter is unplugged – Batteries are drained	– Check the AC power supply – Connect AC adapter to power supply – Replace batteries or recharge them using an external battery charger
oL	– The load on the pan exceeds the scale's capacity	– Unload the scale
uL	– Weighing pan is not positioned – Contact between weighing pan and other objects	– Correctly position the weighing pan – Weighing pan may not come into contact with other objects
d ISErr	– Display overrun: Value to be output cannot be displayed	– Reduce load on the pan
CALErr	– Calibration prerequisites were not met, e.g.,: – Zero/tare – Weighing pan is loaded	– Unload scale Zero/tare with the (TARE) key Do not calibrate until "Zero" is displayed
APPErr	– Too little weight or, in the case of application programs, no paint can on weighing pan	– Increase weight
PrtErr	– Interface port disabled for print function	– Contact Sartorius Customer Service responsible for application programs
bAL.Err	– Scale is loaded or defective when turned on	– Unload scale before turning it on – Contact Sartorius Customer Service
SYS.Err	– Scale is defective	– Contact Sartorius Customer Service
Max. weighing capacity less than defined in chapter on "Specifications"	– Scale was turned on before positioning weighing pan	– Position weighing pan – Turn the scale off and on again using the (I/⏻) key
The weight readout is obviously wrong	– Scale is not calibrated – Scale was not tared prior to weighing	– Calibrate scale – Zero/tare scale

If any other errors occur, please contact your local Sartorius customer service center.

Care and Maintenance

Cleaning

⚠ Unplug the AC adapter from the wall outlet (mains supply). If you have a data cable connected to the interface, unplug it from the scale.

⚠ Do not use caustic agents, concentrated acids or pure alcohol.

○ Make sure that no liquid enters the scale housing.

○ Clean the scale using either a brush or a soft, dry, lint-free cloth.

Storage and Shipping Conditions

○ To ensure safe shipment, your scale has been packaged using environmentally-friendly materials. You should retain these materials in case you need to package your scale for storage or return shipment.

○ Storage temperature: –20°C to +75°C

○ Permissible moisture level for storage of the packaged scale: 90% max.

○ Read and follow the instructions given in the section entitled “Safety Inspection.”

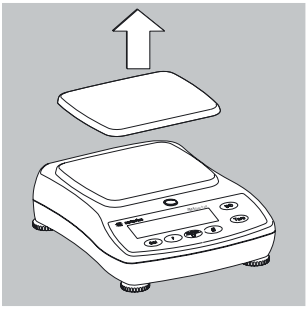
Safety Inspection

Safe operation of the PMA is no longer ensured when:

– There is visible damage to the AC adapter
– The AC adapter no longer functions properly
– The AC adapter has been stored for a relatively long period under unfavorable conditions
– The equipment has been exposed to rough handling during shipment

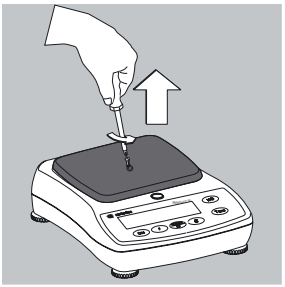
● Observe the warnings and safety precautions in this manual
Notify your nearest Sartorius Service Center or the International Technical Support Unit based in Goettingen, Germany. Maintenance and repair work may only be performed by service technicians who are authorized by Sartorius and who have access to the required service and maintenance manuals, and have attended the relevant service training courses.

⚠ The seals affixed to this equipment indicate that only authorized service technicians are allowed to open the equipment and perform maintenance work so that safe and trouble-free operation of the equipment is ensured and the warranty remains in effect.

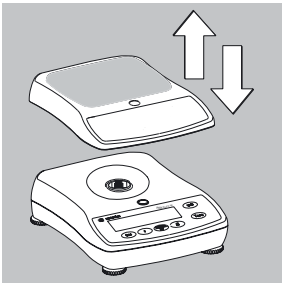


Replacing the In-Use Dust Cover

● Remove the weighing pan

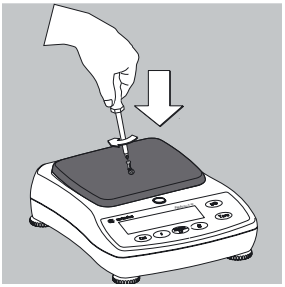


- Remove the screw and remove the pan support.

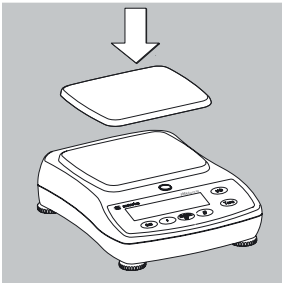


- Replace the soiled in-use dust cover and ensure that the adhesive points on the new cover properly adhere to the scale's surface. The dust cover must be firmly attached.

  Important Note:
  If the dust cover does not adhere to the scale, weighing results may be distorted.



- Replace and refasten the pan support.



- Position the weighing pan.

Recycling

Information and Instructions on Disposal and Repairs
In Germany and many other countries (see www.sartorius.com, Service Download area for details), Sartorius or the organization contracted by us takes care of the proper return and legally compliant disposal of its electrical and electronic equipment on its own. These products may not be placed with the household waste or brought to collection centers run by local public disposal operations – not even by small commercial operators.

For disposal in Germany and in the other Member States of the European Economic Area (EEA), please contact our service technicians on location or our Service Center in Goettingen, Germany:

Sartorius Weighing Technology GmbH
Service Center
Weender Landstrasse 94-108
37075 Goettingen, Germany

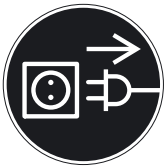
In countries that are not members of the European Economic Area (EEA) or where no Sartorius affiliates, subsidiaries, dealers or distributors are located, please contact your local authorities or a commercial disposal operator.

Prior to disposal and/or scrapping of the equipment, any batteries should be removed and disposed of in local collection boxes.

Sartorius, its affiliates, subsidiaries, dealers and distributors will not take back equipment contaminated with hazardous materials (ABC contamination) – either for repair or disposal. Please refer to the accompanying leaflet/manual or visit our Internet website (www.sartorius.com) for comprehensive information that includes our service addresses to contact if you plan to send your equipment in for repairs or proper disposal.

If you no longer need the packaging after successful installation of the equipment, you should return it for recycling. The packaging is made from environmentally-friendly materials and is a valuable source of secondary raw material.

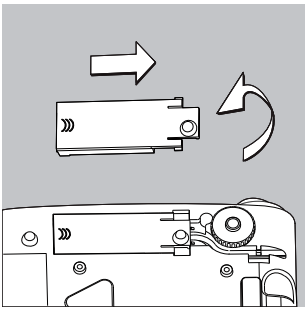
Data Interface (Options)



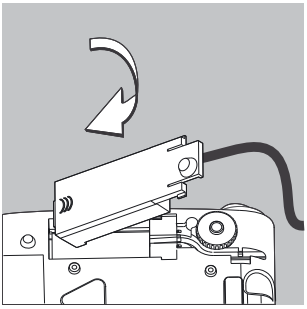
Installation

- Disconnect the power supply:
  Unplug the AC adapter from the wall socket (mains).
- Turn the balance/scale on its side.

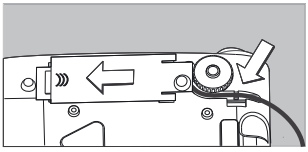
⚠ To avoid damaging the weighing system, do not turn the balance/scale over so that it rests on the weighing pan/load plate.



- Push out the panel on the bottom of the balance/scale.



- Insert the interface.
- Make sure the interface snaps into place.



- Guide the cable through the channel/raceway.

Intended Use of YADAP-USB Adapter
This USB interface adapter is a solution that enables direct connection of the balance/scale to a computer on the USB (universal serial bus) port.
The USB interface is implemented as a virtual serial interface over RS-232 (virtual COM port). For the application program running on the computer, there is no difference whether the serial interface is installed in the PC or enabled in the form of a virtual interface.
The interface offers the same capabilities in either case.

⚠ The USB port is designed for the laboratory environment and is not suitable for use in purely industrial environments. Full IP protection is only guaranteed when the USB cover is closed.

System Requirements
- Computer (PC) with Windows 98SE®, Windows ME®, Windows 2000®, Windows XP®, Windows Vista®, or Windows 7®, Linux, Mac OS 8, 9, or X
- Available USB port on the PC
- USB cable

The equipment supplied with the USB interface adapter includes a CD containing the software drivers you need to set up a virtual interface on your computer.

Software Driver and Installation Guides
The VCP driver, used to set up the virtual interface on the computer, can be downloaded from the internet:
http://www.ftdichip.com/FTDrivers.htm

The installation guides for the driver can be found at
http://www.ftdichip.com/Documents/InstallGuides.htm

Connecting the PC via USB
The current USB port for the computer is established when the software driver is being installed. The driver must be re-installed every time you wish to change the port.
Therefore, choose one USB port that can permanently or regularly be used to connect the balance.

● Switch off the balance.

● Unplug the balance from the mains.

● Connect the USB cable to the balance and to the USB port on the computer.

● Plug the balance into the mains again and switch it on.

○ Windows will detect the device connected to the USB port. If the device is being connected for the first time, the Windows Installation Wizard will run.

Installing the Software Driver

- Run the Installation Wizard for the driver.
- Follow the instructions that appear.
- To complete the installation, click on Finish.
- ○ The virtual interface is ready for use.

Windows® usually adds the virtual port in the position following your highest-numbered COM port.

Example:
For a PC with up to 4 COM ports, the new virtual port would then be COM5 (see Device Manager).

Installation Guides for Microsoft XP®, Vista®, and 7®

Changing the Port Number
If you use the USB interface with a program that limits the number of COM port designations (e.g., only COM1, 2, 3, 4), you may have to assign one of these port numbers to the new virtual port.

- Open the settings for the USB serial port in Windows®:
  – START > My Computer > Control Panel
  – System > Hardware > Device Manager
- Open the Connections submenu.
- Double-click on **USB Serial Port**.
- Select **Port Settings > Advanced**.

Changing the Latency Time

- Open the settings for the USB serial port, following the above instructions.
- For a faster rate of communication, change the setting for the latency timer to 1 msec.

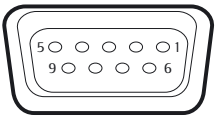
Plug & Play Mode in Autoprint (SBI)

- Open the settings for the USB serial port, following the above instructions.
- Stop the **Plug & Play mode from running**.

Uninstalling the Driver

The software driver for the USB connection can be uninstalled with the Windows® Uninstaller.

Pin Assignment Chart: YADAP-RS



Female Interface Connector:
9-contact D-Submini (DB9) with screw lock hardware for cable gland, for direct connection to a computer or an optional Sartorius printer (PC compatible).

Pin assignments:
Pin 1: Not connected
Pin 2: Data output (TxD)
Pin 3: Data input (RxD)
Pin 4: Clear to send (CTS)
Pin 5: Internal ground (GND)
Pin 6: Connected to pin 8
Pin 7: Not connected
Pin 8: Data terminal ready (DTR)
Pin 9: Not connected

Parameter Settings

(Menu Navigation)

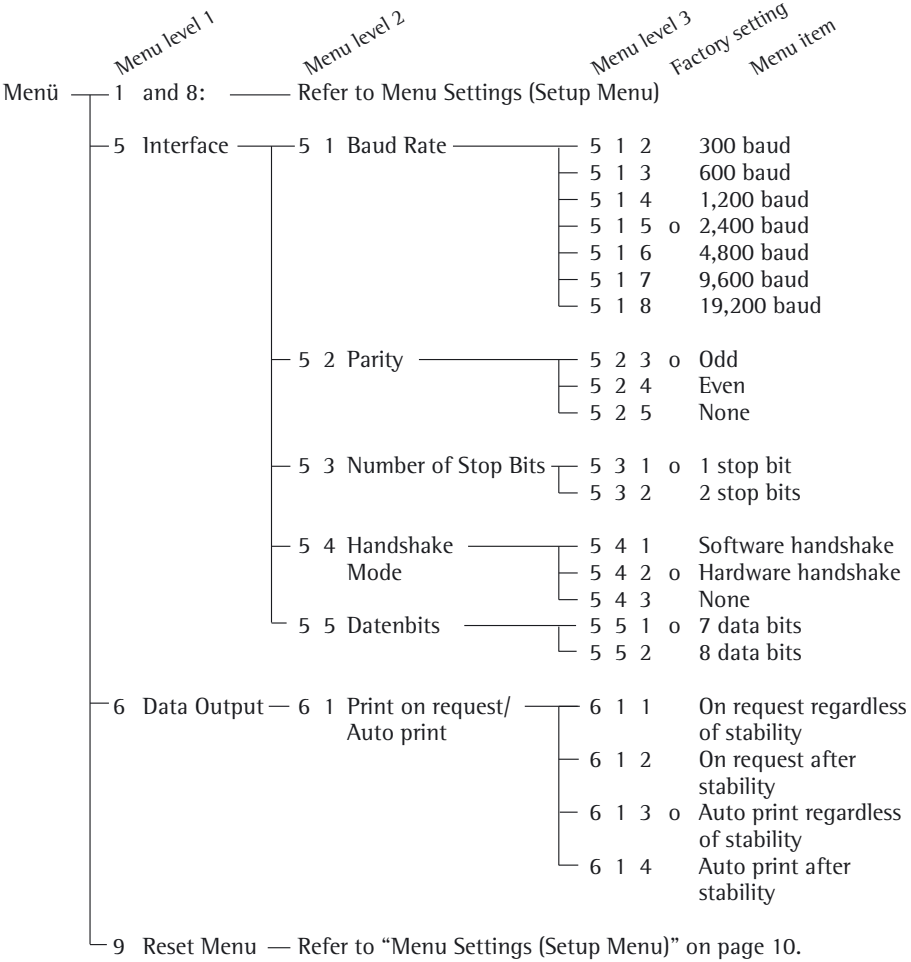
Purpose
Configuring the balance/scale and its data interface to meet individual requirements by selecting from among the predefined parameters in the operating menu.

Factory Settings
The factory-set configurations are marked with an "o" in the list (see next page).

Preparation and Examples
- Please refer to the installation and operating instructions supplied with your balance/scale.

Parameter Settings – Interface Port (Overview)
Intended Purpose
Configuration of the scale and its interface port; i.e., to meet individual requirements by selecting from among predefined parameters in the Setup menu.

o Factory settings
√ User-defined settings


Menu level 1
Menu level 2
Menu level 3
Factory setting
Menu item
Menü
1 and 8: — Refer to Menu Settings (Setup Menu)
5 Interface
5 1 Baud Rate
5 1 2 300 baud
5 1 3 600 baud
5 1 4 1,200 baud
5 1 5 o 2,400 baud
5 1 6 4,800 baud
5 1 7 9,600 baud
5 1 8 19,200 baud
5 2 Parity
5 2 3 o Odd
5 2 4 Even
5 2 5 None
5 3 Number of Stop Bits
5 3 1 o 1 stop bit
5 3 2 2 stop bits
5 4 Handshake Mode
5 4 1 Software handshake
5 4 2 o Hardware handshake
5 4 3 None
5 5 Datenbits
5 5 1 o 7 data bits
5 5 2 8 data bits
6 Data Output
6 1 Print on request/ Auto print
6 1 1 On request regardless of stability
6 1 2 On request after stability
6 1 3 o Auto print regardless of stability
6 1 4 Auto print after stability
9 Reset Menu — Refer to “Menu Settings (Setup Menu)” on page 10.

Specifications

Model		PMA600H
Weighing capacity	g	600
Readability	g	0.01
Tare range (subtractive)	g	–600
Max. linearity	g	<±0.03
Stability range	s	2
Adaptation to ambient conditions		By selection of 1 of 4 optimized filter levels; display sequence: 0.1–0.8, (depending on the filter level setting)
Allowable ambient operating temperature range	°C	+10 to +40 (273 to 303 K, 50° to 86°F)
Weighing pan	mm	140 × 127
Net weight, approx.	kg	1.3
Calibration weights, 2 (in the weight compartment)	g	100 Class (F1)
Power consumption (average)	W	0.8
Interface port (optional)		RS-232 or USB
Format:		7-bit ASCII, 1 start bit, 1 or 2 stop bits
Parity:		Even, odd, none
Transmission rates		300 to 19,200 baud
Handshake		Software, hardware, none
AC power source Frequency	V Hz	230 or 115 V +15%...– 20%, 48–60
Hours of operation, approximate: – Alkaline batteries (8 size AA) – Fully charged rechargeable batteries. (8 size AA, NiMH)	 h h	 35 24

Accessories

In-use dust cover	YDC-02PMA
Interface port, installation kit RS-232 interface with cable (2 m)	YADAP-RS
or USB interface with cable (2 m)	YADAP-USB
Carrying case	Upon request
Anti-theft locking device	LC-1
Calibration weights, universal (for weight compartment in scale) (100 g, F1)	69V0007
Weighing pan, square	Upon request
Feet: Set 1 leveling foot with 1 fixed foot	Upon request
Set of covers for : – Battery compartment – Interface port – Weight compartment	Upon request

sartorius
mechatronics

CE EG-Konformitätserklärung
EC Declaration of Conformity

Sartorius Weighing Technology GmbH
Weender Landstrasse 94 - 108
D-37075 Goettingen, Germany

erklärt, dass das Betriebsmittel
declares that the equipment

Geräteart: *Device type:*	**Hochauflösende Farbmischwaage** ***High-resolution paint mixing scale***
Baureihe / *Type series:*	**PMA600H**

in der von uns in Verkehr gebrachten Ausführung mit den grundlegenden Anforderungen der folgenden Europäischen Richtlinien übereinstimmt:
in the form as delivered complies with the basic requirements of the following European Directives:

Richtlinie 2004/108/EG *Directive 2004/108/EC*	Elektromagnetische Verträglichkeit *Electromagnetic compatibility*
Richtlinie 2006/95/EG *Directive 2006/95/EC*	Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen *Electrical equipment designed for use within certain voltage limits*

Das Gerät erfüllt die anwendbaren Anforderungen folgender harmonisierten Europäischen Normen.
The apparatus meets the applicable requirements of the harmonized European Standards listed below.

1. Richtlinie 2004/108/EG / *Directive 2004/108/EC*

EN 61326-1:2006	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 1: Allgemeine Anforderungen (IEC 61326-1:2005) *Electrical equipment for measurement, control and laboratory use - EMC requirements – Part 1: General requirements (IEC 61326-1:2005)*

2. Richtlinie 2006/95/EG / *Directive 2006/95/EC*

EN 61010-1:2001	Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 1: Allgemeine Anforderungen (IEC 61010-1:2001) *Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2001)*

Jahr der Anbringung der CE-Kennzeichnung / *Year of attachment of CE marking:* **11**

Sartorius Weighing Technology GmbH
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